UNIVERSITY OF SOUTH FLORIDA
Department of Mechanical and Aerospace Engineering
Thermofluids Discovery Lab (TDLab)



UNDERGRADUATE RESEARCH OPPORTUNITY

Help Us Build Quieter Drones

Volunteer Undergraduate Researcher in CFD and Aeroacoustics

10 hrs per week expected | Starts December 2026 | Hybrid, Tampa campus

WHAT YOU WILL DO

- Run CFD simulations of drone propeller aerodynamics and aeroacoustic noise
- Build propeller geometry and meshes, process results and validate them against published data
- Present your progress at weekly group meetings

WHO SHOULD APPLY

- Undergraduates in Mechanical or Aerospace Engineering, or a related major
- Fluid Mechanics completed or in progress
- Reliable, motivated and independent
- **A plus** if you know OpenFOAM or Fluent, Linux/HPC, or Python and MATLAB

WHAT YOU GAIN

Training
Hands-on mentoring in CFD tools

Lab access
A seat in TDLab and its computing resources

Publications
Potential co-authorship on scientific papers

References
Letters for graduate school and future jobs

This is a **volunteer position** for now. Given exceptional performance, it will turn into a **paid position** if funds become available.

APPLY

Apply by Nov. 22, 2026

Submit the short form with your resume and unofficial transcript. Top applicants will be invited to interview.

forms.cloud.microsoft/r/2gSWSzauQf

Questions? Dr. Vaselbehagh · vaselbehagh@usf.edu
Dr. Doranehgard · doranehgard@usf.edu

MEET THE LAB
TDLAB.INFO